## WHAT IS CLAIMED IS:

1. A transmission comprising:

an output shaft;

- a countershaft extending parallel to said output shaft;
- an intermediate shaft extending parallel to said output shaft;
- a forward drive gear being rotatably supported relative to said countershaft;
- a reverse drive gear being rotatably supported relative to said countershaft;
- a first intermediate gear being rotatably supported relative to said intermediate shaft, said first intermediate gear meshing with said reverse drive gear;
- a second intermediate gear rotatably supported relative to said intermediate shaft, said second intermediate gear being interlocked with said first intermediate gear to rotate therewith;

an output shaft driven gear fixed to said output shaft, said output shaft driven gear meshing with said forward drive gear and said second intermediate gear; and

- a gear selecting and fixing device axially and movably mounted on said countershaft for selectively engaging said forward drive gear and said reverse drive gear to said countershaft.
- 2. The transmission according to claim 1, wherein said output shaft driven gear is the only gear attached to said output shaft.
- 3. The transmission according to claim 1, wherein said forward and reverse drive gears, said first and second intermediate gears, and said output shaft driven gear are constant-mesh gears.
- 4. The transmission according to claim 1, further comprising at least one hydraulic multi-plate clutch.

- 5. The transmission according to claim 1, further comprising a main shaft operatively engaged with a crankshaft through a primary driven gear and a torque converter.
- 6. The transmission according to claim 2, wherein said forward and reverse drive gears, said first and second intermediate gears, and said output shaft driven gear are constant-mesh gears.
- 7. The transmission according to claim 2, further comprising at least one hydraulic multi-plate clutch.
  - 8. The transmission according to claim 4, further comprising:
  - a first speed hydraulic multi-plate clutch;
  - a second speed hydraulic multi-plate clutch; and
  - a third speed hydraulic multi-plate clutch.
  - 9. The transmission according to claim 5, further comprising:
- a first speed hydraulic multi-plate clutch being positioned between said main shaft and a first-speed drive gear;
- a second speed hydraulic multi-plate clutch being positioned between said countershaft and a second-speed driven gear; and
- a third speed hydraulic multi-plate clutch being positioned between said countershaft and a third-speed driven gear.
- 10. The transmission according to claim 9, wherein said output shaft driven gear is the only gear attached to said output shaft.
- 11. The transmission according to claim 1, wherein said gear selecting and fixing device is a manually operated dog clutch.

- 12. The transmission according to claim 10, wherein said gear selecting and fixing device is a manually operated dog clutch.
  - 13. A power unit for a four-wheeled vehicle comprising:

an internal combustion engine having a crankshaft arranged with respect to a longitudinal direction of said engine;

a transmission including

a main shaft operatively engaged with said crankshaft through a torque converter and a primary drive gear on said crankshaft and a primary driven gear on said main shaft;

an output shaft;

a countershaft extending parallel to said output shaft;

an intermediate shaft extending parallel to said output shaft;

- a forward drive gear being rotatably supported relative to said countershaft;
- a reverse drive gear being rotatably supported relative to said countershaft;
- a first intermediate gear being rotatably supported relative to said intermediate shaft, said first intermediate gear meshing with said reverse drive gear;
- a second intermediate gear rotatably supported relative to said intermediate shaft, said second intermediate gear being interlocked with said first intermediate gear to rotate therewith;

an output shaft driven gear fixed to said output shaft, said output shaft driven gear meshing with said forward drive gear and said second intermediate gear; and

a gear selecting and fixing device axially and movably mounted on said countershaft for selectively engaging said forward drive gear and said reverse drive gear to said countershaft.

- 14. The power unit according to claim 13, wherein said output shaft driven gear is the only gear attached to said output shaft.
- 15. The power unit according to claim 13, wherein said forward and reverse drive gears, said first and second intermediate gears, and said output shaft driven gear are constant-mesh gears.
  - 16. The power unit according to claim 14, further comprising:
  - a first speed hydraulic multi-plate clutch;
  - a second speed hydraulic multi-plate clutch; and
  - a third speed hydraulic multi-plate clutch.
  - 17. The power unit according to claim 14, further comprising:
- a first speed hydraulic multi-plate clutch being positioned between said main shaft and a first-speed drive gear;
- a second speed hydraulic multi-plate clutch being positioned between said countershaft and a second-speed driven gear; and
- a third speed hydraulic multi-plate clutch being positioned between said countershaft and a third-speed driven gear.